

CLAIMS

What Is Claimed Is:

- 1                    1.        The apparatus comprising:
- 2                    a conveyer structure, including first and second T-sections; <sup>and</sup>
- 3                    a car adapted to ride on said conveyer structure, said car comprising:
- 4                    (a)        two pairs of wheel tires positioned to ride on said first
- 5                    and second T-sections respectively, each wheel tire being driven by a
- 6                    respective motor drive unit, each drive unit including an electric motor,
- 7                    an electric motor brake and a shaft-mounted gearbox;
- 8                    (b)        four caster guide wheels each mounted adjacent a
- 9                    respective one of said wheel tires so as to rotate in a horizontal plane
- 10                   adjacent a vertical edge of one of said first and second T-sections; and
- 11                   (c)        four roller wheels, each mounted to rotate about an axis
- 12                   parallel to the axis about which said wheel tires rotate and immediately
- 13                   adjacent an underside edge of one of said first and second T-sections .
- 1                    2.        The apparatus of Claim 1 further comprising:
- 2                    first and second hydraulic caliper brakes each having respective brake
- 3                    shoes positioned to engage a respective one of said T-sections.
- 1                    3.        The apparatus of Claim 1 wherein said car comprises a belt tripper.
- 1                    4.        The apparatus of Claim 1 wherein said car comprises a hopper.

8

09131265-080798

1 5. The apparatus comprising:

2 a car adapted to ride on first and second T-sections of a conveyer  
3 structure, said car comprising two pairs of wheel tires positioned to ride  
4 on said first and second T-sections respectively, each wheel tire being  
5 driven by a respective motor drive unit, each drive unit including an  
6 electric motor, an electric motor brake and a shaft-mounted gearbox.

1 6. The apparatus of Claim 5 wherein said car further comprises:

2 four caster guide wheels each mounted adjacent a respective one  
3 of said wheel tires so as to rotate in a horizontal plane adjacent a  
4 vertical edge of one of said first and second T-sections; <sup>and</sup>  
5 four roller wheels, each mounted to rotate about an axis parallel  
6 to the axis about which said wheel tires rotate and immediately  
7 adjacent an underside edge of one of said first and second T-  
8 sections.

1 7. The apparatus of Claim 6 further comprising:

2 first and second hydraulic caliper brakes each having respective  
3 brake shoes positioned to engage a respective one of said T-  
4 sections.

1 8. The apparatus of Claim 5 wherein said car comprises a belt tripper.

1 9. The apparatus of Claim 5 wherein said car comprises a hopper.

9

09131265-080798